

## The Science Curriculum at Yeadon Westfield Infant School

### Intent

At Yeadon Westfield Infant School we believe that **all** pupils are entitled to a full, stimulating, and well-structured Science curriculum based on the National Curriculum 2014 and the EYFS Statutory Framework 2021.

We believe the teaching of science should:

- support children in understanding the uses and implications of science today for the future
- equip children with scientific skills (planning, enquiring, measuring, recording data, predicting and drawing conclusions) to support them in answering questions about the world around them
- support children in their conceptual knowledge of science and to encourage curiosity and excitement

We aim to build their resilience to help them develop an appreciation and enjoyment of science and to inspire them for the future.

As an infant and nursery school, we are very much centred on the first steps in this journey.

We believe that following a rigorous and child centred curriculum from the beginning of nursery allows us to ensure **all** pupils are given the opportunities they need to make progress across the areas for learning and to acquire the skills and knowledge in the National Curriculum, whether they are disadvantaged, have special educational needs, or have delays or gaps in learning.

### Implementation

We have chosen to develop a curriculum that focuses on sequential learning building on the foundations already laid in the previous learning. Each stage of the children's learning journey is clear, misconceptions can be addressed, and gaps addressed: knowledge is carefully and systematically built up and mastery opportunities can be provided at every stage.

Nursery children have access to areas of provision to develop their learning and this is built on in reception.

In KS1, the science curriculum is taught through relevant and carefully planned topics. Science lessons are crafted to ensure children are given the opportunity to develop conceptual knowledge alongside working scientifically skills. Children are encouraged to ask questions and to record their understanding in a variety of creative ways. We aim to nurture a love for science and alongside exciting and interesting science lessons we have visitors, join other schools in the Great Science Share and take part in British Science Week.

There will be active participation in acquiring a range of scientific skills, involving individual, group and class work. Opportunities will also be identified across the curriculum so that the children can develop and apply their skills in all aspects of learning and not simply in subject isolation.

### Assessment

- all lessons will provide opportunities for formative assessment. These assessments may include group observations, individual practical work, questioning and marking of work in both written and oral form
- end of year reports contain information about how the children have progressed through the year including their strengths and areas for development

Monitoring is carried out to ensure staff and children are confident with teaching and learning science. Staff keep up to date with developments in science with work being done in the ALPT and advice from the Department of Education.

### **Impact**

By the end of KS1 we aim for:

- children to have a good conceptual knowledge in science and to meet the age-related expectations.
- children to have developed scientific skills and to be increasingly confident in using their skills and knowledge to answer questions and work through problems.
- children to be able to work practically and collaboratively in investigations.
- children to be curious and to ask questions about the world around them.

Learning is expected to be of high quality with children putting in their best effort. Children should enjoy science lessons and be keen to challenge themselves regardless of stage of development. They should leave our school ready for the next stage of their learning in KS2.